

- and
- (a) about 15 atom % to about 95 atom % chromium;
 - (b) about 15 atom % to about 60 atom % rhenium.

A2 sub 2 5. (amended) The barrier coating material of claim 48, wherein the level of tungsten is in the range of about 5 atom % to about 20 atom %.

A3 13. (amended) The barrier coating material of claim 49, wherein the level of ruthenium is in the range of about 10 atom % to about 60 atom %.

Please add the following new claims:

Sub B4 New Claim 48. A barrier coating material, comprising:

- and
- (a) about 15 atom % to about 95 atom % chromium;
 - (b) about 5 atom % to about 60 atom % tungsten.

A4 New Claim 49. A barrier coating material, comprising:

- and
- (a) about 15 atom % to about 95 atom % chromium;
 - (b) about 5 atom % to about 60 atom % ruthenium;
 - (c) about 1 atom % to about 15 atom % aluminum;

wherein, for the maximum level of chromium present, the sum of (a), (b), and (c) is no greater than 100%.

New Claim 50. A barrier coating material, consisting essentially of:

(a) about 15 atom % to about 95 atom % chromium;

and

(b) about 5 atom % to about 60 atom % of at least one element selected from the group consisting of rhenium, tungsten, ruthenium, and combinations thereof.

New Claim 51. A barrier coating material, consisting essentially of:

(a) about 15 atom % to about 95 atom % chromium;

(b) about 5 atom % to about 60 atom % of at least one element selected from the group consisting of rhenium, tungsten, ruthenium, and combinations thereof; and

(c) about 1 atom % to about 35 atom % of at least one element selected from the group consisting of nickel, cobalt, iron, and combinations thereof,

wherein, for the maximum level of chromium present, the sum of (a), (b), and (c) is no greater than 100%.

New Claim 52. A barrier coating material, consisting essentially of:

(a) about 15 atom % to about 95 atom % chromium;